### PATENT COOPERATION TREATY

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То:				PET
	see form PCT/ISA/220		INTERNATION	TEN OPINION OF THE IAL SEARCHING AUTHORITY OF THE POT Rule 43 bis. 1)
			Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
	nt's or agent's file reference rm PCT/ISA/220		FOR FURTHER A See paragraph 2 below	w
PCT/IE	ional application No. 32005/000569	International filing date (date 02.03.2005		Priority date (day/month/year) 17.03.2004
International Patent Classification (IPC) or both national classification and IPC C07F9/09 Applicant CLARIANT INTERNATIONAL LTD				
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.			
3.	For further details, see notes to	Form PCT/ISA/220.		
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/000569

_	Box No	o. I	Basis of the opinion
1.	With re	gare	d to the <b>language</b> , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	lar (u	ngua ndei	Rules 12.3 and 23.1(b)).
2.	With re	egar sary	d to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	of ı	naterial:
		as	sequence listing
		tat	ple(s) related to the sequence listing
	b. forn	nat d	of material:
		in	written format
		in	computer readable form
	c. time	e of	filing/furnishing:
		cc	ontained in the international application as filed.
		file	ed together with the international application in computer readable form.
		· fu	rnished subsequently to this Authority for the purposes of search.
3	h	ias t copie	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.
4	1. Addit	iona	l comments:

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/000569

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, Inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-4,6-9

No:

Claims

1,5

Inventive step (IS)

Yes: Claims

6,9

Claims No:

2-4,7,8

Industrial applicability (IA)

No:

Yes: Claims Claims 1-9

2. Citations and explanations

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
  - D1: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1994, WACHI, TOSHIO ET AL: "Preparation of phosphate triesters" XP002289140 retrieved from STN Database accession no. 1994:54693
  - D2: CARIES RESEARCH, 25(1), 51-7 CODEN: CAREBK; ISSN: 0008-6568, 1991, XP009034124
  - D3: WO 02/08164 A (BASF AG; MAAS HEIKO (DE); TROPSCH JUERGEN (DE)) 31 January 2002 (2002-01-31)
  - D4: WO 03/091192 A (BASF AG; RULAND ALFRED (DE); BOEHN ROLAND (DE); HACKMANN CLAUS (DE);) 6 November 2003 (2003-11-06)
  - D5: DE 203 03 420 U1 (SASOL GERMANY GMBH) 30 October 2003 (2003-10-30)
- 2. D1, see RN 151834-99-0, Field "CN" und fig., already discloses a compound according to formula I, in which the variables have the following meanings:

m = 3

n = 2 oder 3

x = 5

s = 1

r = 3

r + s = 4

Claim 1, therefore, lacks novelty over D1.

D2, page 52, left hand column "Alkyl Phosphates" describes the phosphoric acid

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/000569

monoester of tetraethylenglykol-mono-(2-ethylhexyl)etherr und das disodiumsalt (E) therof and at page 53 tables 1 and 2 tooth protection agents against streptokokkus consisting of (E) and distilled water or (E), dist. water and non-ionic surfaceactive agent.

The free acid of (E) meets the variables of claim 1:

m = 1

n = 2

x = 4

s = 1

r = 3

r + s = 4

Hence, claims 1 und 5 lack novelty over D2.

D3-D5 are no anticipations. D3 discloses alcohol residues which are different from formula II; D4 is concerned with guerbet oligoalkoxylate but does not disclose phosphate esters thereof. D5 only discloses a broader generic definition of phosphateesters of guerbet oligoalkoxilates. In contrast thereto the novel compounds of formula I according to claim 1 are novel as being a selection.

3. Compounds known from D1 and D2 can be prepared and used in analogy to known processes from (see the search report for the specific disclosures). Hence, claims 3,4,8 are obvious over the combination D1/D3 or D2/D3. Furthermore, preparation and use of still new compounds is obvious over the combination of D5 (page 11, lines 20-26) or D4 (example 1) with D3 (example 7, claims 12 and 19). Hence, in addition to the novelty objection claims 1-5, 7 and 8 also obvious.